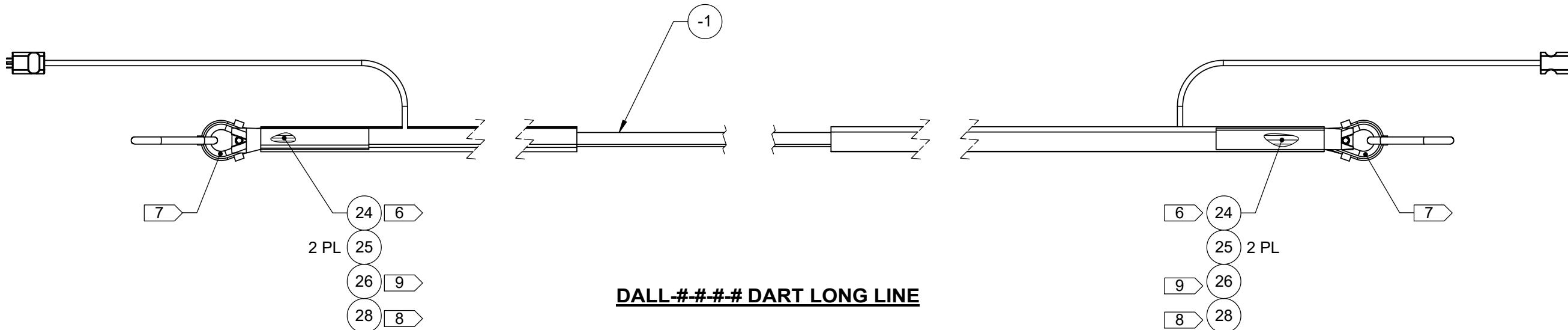
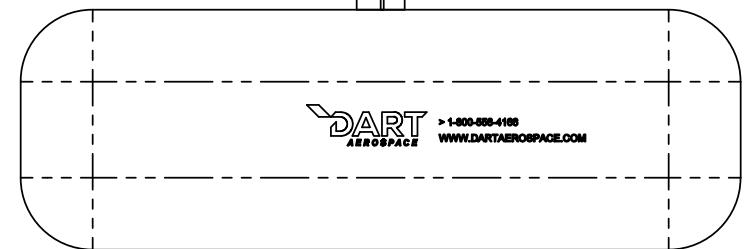


8 7 6 5 4 3 2 1

ITEM #	QTY	PART #	PART TITLE
-1	1	DALL-#-#-#-1	DART LONG LINE
-21	1	DALL-#-#-#-21	DART AEROSPACE BAG
24	4	McMaster#1632T22 OR EQUIV.	ID TAG
25	4	McMaster#3896T31 OR EQUIV.	ALUMINUM WIRE ROPE COMPRESSION SLEEVE 1/16" DIA. X 3/8" LG.
26	A/R	McMaster#6820A12 OR EQUIV.	CLEAR HEAT-SHRINK TAPE 3/4" WD.
27	2	McMaster#90905A673 OR EQUIV.	SS SPLIT RING 15/16" ID. X 1-1/16" OD. X 1/8" THK.
28	A/R	CARR LANE#CL-2-C	NYLON COATED STEEL LANYARD 1/16" DIA

2 PL 27 9
2 PL 24 6 10
-21 11



DALL-#-#-# DART LONG LINE

NOTES:

1) MATERIAL: N/A

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: DOT MARK THE FOLLOWING INFO ONTO ITEM 24:

P/N: DALL-#-#-#

LENGTH: XXX FT (REFER TO TABLE 1)

CAPACITY: XX XXX LBS (REFER TO TABLE 2)

S/N: XXXXXX (REFER TO S/N ENGRAVED ON THIMBLES)

EIS DATE: MM/DD/YYYY (EIS DATE IS THE SHIPPING DATE)

7) IDENTIFICATION: MACHINE ENGRAVE, OR DOT MARK, OR STAMP USING 0.25" STAMP, S/N ONTO EACH THIMBLE

8) ASSEMBLED LANYARD LENGTH MUST BE 5" +/- 1". LANYARD MUST BE INSTALLED WITH ID TAG TO THE BASE OF THE THIMBLE AND PASS THROUGH THE ROPE STRANDS IN ORDER TO BE SECURED. BLUE JACKET (IF APPLICABLE) VELCRO NEED TO BE FASTENED OVER ASSEMBLED LANYARD AND ID TAG. THE ID TAG MUST NOT MOVE FREELY ONCE INSTALLED.

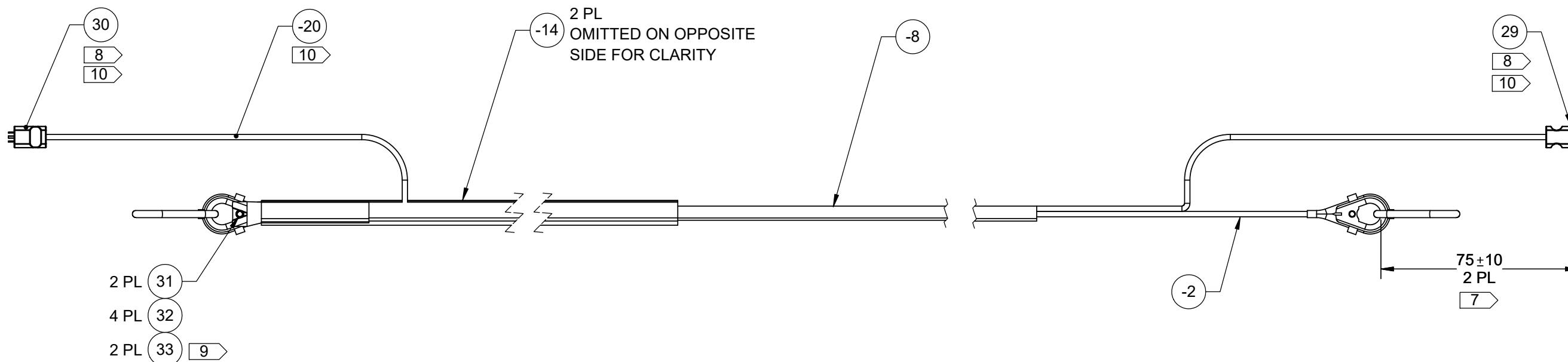
9) COVER ID TAG AND SLEEVES USING ITEM 26 TO PREVENT DAMAGE TO THE ROPE

10) ATTACH ONE ID TAG TO THE BAG ZIPPER WITH THE SPLIT RING AND PLACE ONE ID TAG AND SPLIT RING INTO THE BAG SIDE POCKET

11) COIL LONG LINE INTO BAG

DESIGN	MBB	DART AEROSPACE LTD			
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA			
CHECKED	RF	REV. E			
MFG. APPR.	SH	TOOL PART #			
APPROVED	SAD	DALL-#-#-#			
TITLE		SHEET 2 OF 25			
DART LONG LINE		SCALE			
DATE 5/20/2021		NTS			
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ITEM #	QTY	PART #	PART TITLE
-2	1	DALL-#-#-#-2	ROPE ASSY
-8	1	DALL-#-#-#-8	ORANGE JACKET ASSY
-14	2	DALL-#-#-#-14	BLUE JACKET ASSY
-20	A/R	DALL-#-#-#-20	ELECTRICAL WIRE
29	1	PASS & SEYMOUR #PS5969Y or McMaster#7216K6	3 PRONG FEMALE SPADE PLUG
30	1	PASS & SEYMOUR #PS5965Y or McMaster#7216K5	3 PRONG MALE SPADE PLUG
31	2	AN3C10A	BOLT
32	4	NAS1149C0363R	FLAT WASHER
33	2	MS21044C3	HEX NUT

**NOTES:**

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) CUT ELECTRICAL WIRE TO LENGTH AS SHOWN

8) INSTALL ITEMS 29 AND 30 USING INDUSTRY STANDARD TECHNIQUES. ATTACH GREEN WIRE (IF APPLICABLE) TO THE GROUND PIN,
ATTACH WHITE WIRE TO THE NARROW BLADE TERMINAL, ATTACH THE BLACK WIRE TO THE WIDE BLADE TERMINAL.
ONLY INCLUDE ITEMS 29 AND 30 WITH DALL-#-#-#-A, DALL-#-#-#-B, DALL-#-#-#-G AND DALL-#-#-#-H

9) TIGHTEN NUT UNTIL IT CONTACTS FABRIC (IT IS ACCEPTABLE TO USE A LONGER OR SHORTER BOLT, 1-4 BOLT THREADS MUST BE EXPOSED)

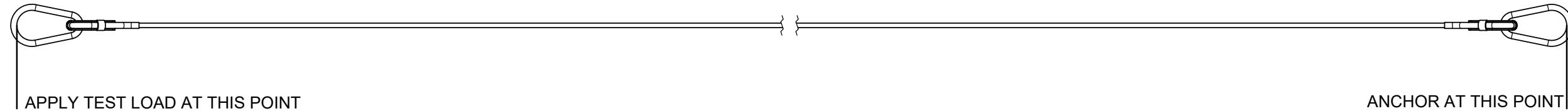
10) ELECTRICAL CABLE MUST BE FREE OF DAMAGE OR NICKS TO THE INSULATION, ELECTRICAL CONNECTORS MUST BE SECURELY
INSTALLED. PERFORM CONTINUITY CHECK TO ENSURE THERE IS NO SHORT AND, IF APPLICABLE THAT CABLES ARE CONNECTED PROPERLY

11) ITEMS -8, -14, -20, AND 29 TO 33 NOT INCLUDED FOR DALL-#-#-C-F AND DALL-#-#-D-F

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E
MFG. APPR.	SH	DALL-#-#-#-	SHEET 3 OF 25
APPROVED	SAD	TITLE	SCALE
		DART LONG LINE	NTS
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D

D



APPLY TEST LOAD AT THIS POINT

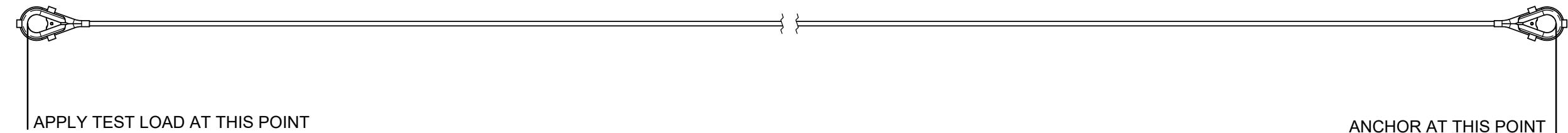
ANCHOR AT THIS POINT

DALL-##-A##-2 ROPE ASSY

DART LONGLINE ASSEMBLY WITH PEAR SHAPED LIFTING RING OPTION

C

C



APPLY TEST LOAD AT THIS POINT

ANCHOR AT THIS POINT

DALL-##-B##-2 ROPE ASSY

DART LONGLINE ASSEMBLY WITHOUT PEAR SHAPED LIFTING RING OPTION

B

B

- NOTES:
 1) MATERIAL: N/A
 2) HEAT TREAT: N/A
 3) FINISH: N/A
 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) THE DALL-##-##-2 MUST BE LOAD TESTED TO 3X THE WORKING LOAD (PER TABLE 5) FOR 5 CONTINUOUS MINUTES.

INSPECT ROPE AFTER LOAD TEST TO ENSURE THERE ARE NO BROKEN OR DAMAGED STRANDS.

FRAYING AND DAMAGE TO THE ROPE IS NOT ACCEPTABLE. INSPECT THIMBLE TO ENSURE THERE IS NO DISTORTION OR DAMAGED WELDS

8) CARE MUST BE TAKEN TO PREVENT DAMAGE DURING TESTING

9) TEST LOADS MUST BE DOCUMENTED

8 7 6 5 4 3 2 1

TABLE 5 ROPE LOAD TEST	
DART LONG LINE PART NUMBER CODE	TEST LOAD (LBS)
DALL-##-A##-	7500
DALL-##-B##-	9000
DALL-##-C##-	13 200
DALL-##-D##-	16 200
DALL-##-E##-	21 900
DALL-##-F##-	29 100
DALL-##-G##-	39 600

7
8

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	DALL-##-##-#
MFG. APPR.	SH	REV. E	SHEET 4 OF 25
APPROVED	SAD	TITLE	
DATE 5/20/2021		SCALE	NTS
DART LONG LINE			
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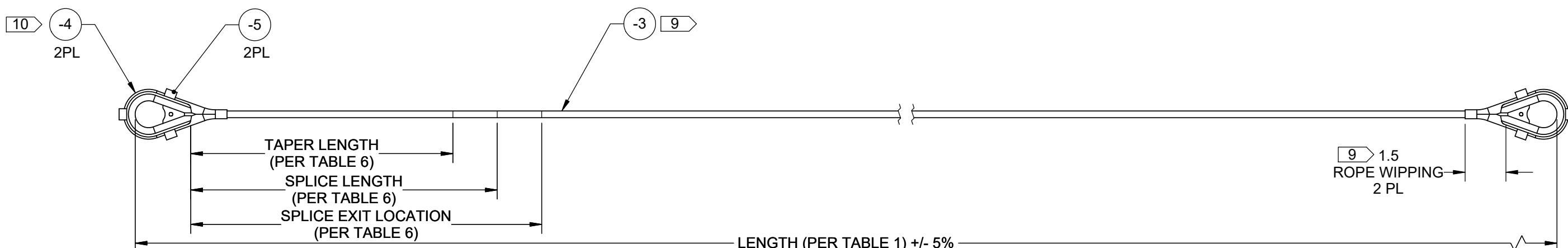
A

A

ITEM #	QTY	PART #	PART TITLE
-3	1	DALL-#-#-#-3	ROPE
-4	2	DALL-#-#-#-4	FABRIC WEARPAD
-5	2	DALL-#-#-#-5	THIMBLE ASSY

D

D



C

C

DALL-#-#-#-2 ROPE ASSY
(SHOWN ASSEMBLED)

TABLE 6
FABRICATION MEASUREMENTS

DART LONG LINE PART NUMBER CODE	SPICE LENGTH (INCHES)	TAPER LENGTH (INCHES)	SPICE EXIT LOCATION (INCHES)	THIMBLE CIRCUMFERENCE (INCHES)
DALL-#-A-#-#	25	8	30	9
DALL-#-B-#-#	30	10	35	10
DALL-#-C-#-#	35	10	40	10
DALL-#-D-#-#	40	13	50	10
DALL-#-E-#-#	45	13	55	14
DALL-#-F-#-#	50	16	65	14
DALL-#-G-#-#	60	20	75	17

NOTES:

- 1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES UNLESS OTHERWISE NOTED

6) REMOVE ALL SHARP EDGES

7) IDENTIFICATION: N/A

8) ROPE CUT LENGTH FORMULA = (SPICE LENGTH PER TABLE 6 + 3" + THIMBLE CIRCUMFERENCE PER TABLE 6) + (REQUIRED TOTAL LENGTH - 1%).

9) PREPARE THE ROPE SPLICE AS FOLLOWS:

A) MEASURING FROM THE END OF THE ROPE, MARK THE SPICE LENGTH, TAPER LENGTH AND EXIT LOCATION PER TABLE 6

B) PASS THE ROPE THROUGH THE THIMBLE AND FABRIC WEARPAD UNTIL THE SPICE LENGTH MARK IS 1.5" FROM THE BASE OF THE THIMBLE

C) MAKE A MARK 1.5" FROM THE BASE OF THE THIMBLE ON THE OTHER SIDE OF THE ROPE (BESIDE THE FIRST SPICE LENGTH MARK)

D) PLACE THE END OF THE ROPE IN THE SPLICING FID

E) AT THE LOCATION MARKED AT STEP "C", CAREFULLY INSERT THE SPLICING FID IN THE CENTER OF THE ROPE

F) WORK THE SPLICING FID ALONG THE HOLLOW CENTER OF THE ROPE AND EXIT AT THE SPICE EXIT LOCATION MARK MADE EARLIER

G) REMOVE THE SPLICING FID

H) MARK EVERY FOURTH "S" / "Z" STRAND STARTING AT THE TAPER MARK. CUT AND REMOVE THE MARKED STRANDS

I) MARK AND THEN CUT THE NEXT THREE CONSECUTIVE STRANDS NEAR THE END OF THE ROPE

J) CUT THE TIP OF THE REMAINING STRANDS AT AN ANGLE

K) CAREFULLY SMOOTH THE ROPE AWAY FROM THE THIMBLE (THE TAPER WILL NOW BE INSIDE OF THE ROPE)

L) ENSURE THE MARKS CLOSEST TO THE THIMBLE ARE ALIGNED (APPROXIMATELY 1.5" FROM THE BASE OF THE THIMBLE)

M) ONCE THE ROPE SPLICE IS COMPLETE THE ROPE MUST BE TIGHTLY "WIPPED" AT APPROXIMATELY 1.5" FROM

THE BASE OF THE THIMBLE USING 5-10 WRAPS OF 1/16" CORD

N) REPEAT THE STEPS ABOVE ON THE OPPOSITE SIDE OF THE LONGLINE

10) THE -4 FABRIC WEARPAD MUST BE MANUFACTURED FROM ABRASION RESISTANT NYLON OR ARAMID FABRIC.

THE WEARPAD MUST TIGHTLY FIT AROUND THE ROPE AND EXTEND 1.0" BELOW THE BASE OF THE THIMBLE

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E DALL-#-#-#-# SHEET 5 OF 25
MFG. APPR.	SH		
APPROVED	SAD	TITLE	SCALE DART LONG LINE NTS
DATE 5/20/2021		COPYRIGHT © 2019 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

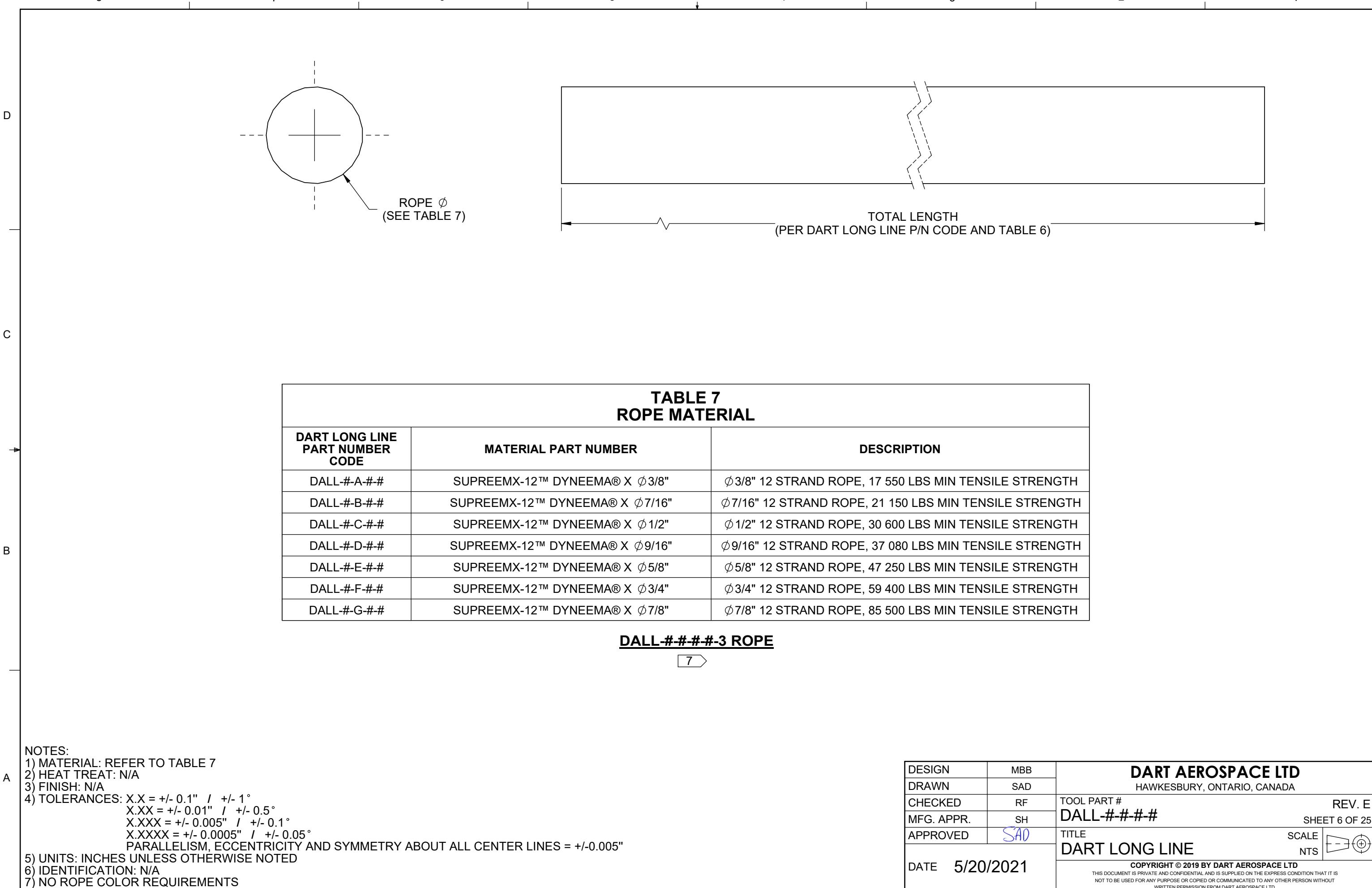
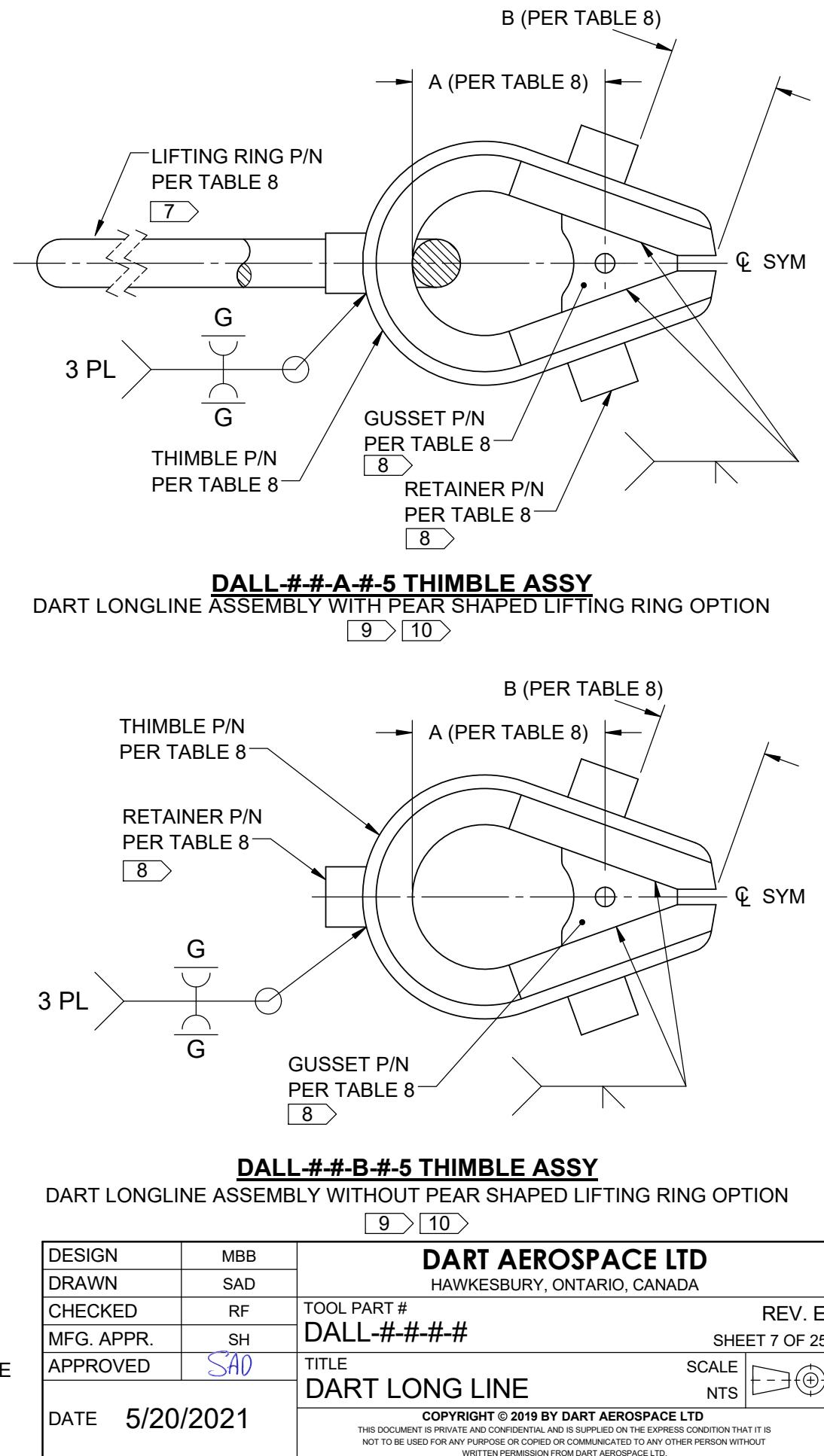
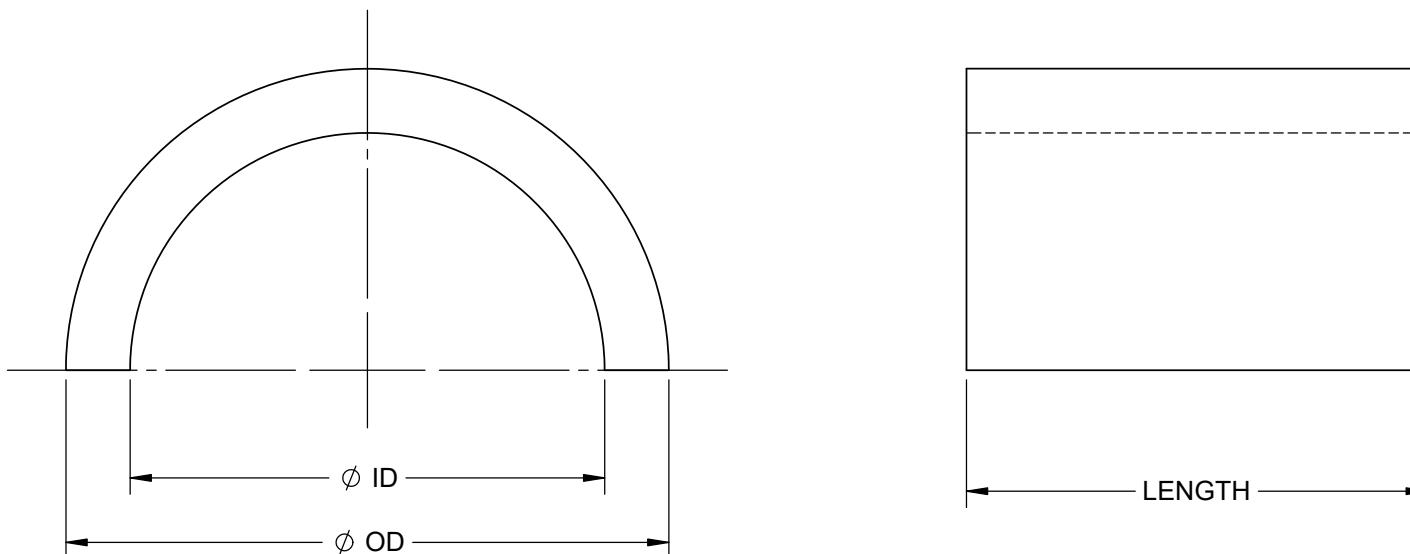


TABLE 8 THIMBLE ASSY AND END HARDWARE (TO USE TABLE SELECT APPROPRIATE DART LONG LINE PART NUMBER CODE IN COLUMN ONE THEN MANUFACTURE THIMBLE ASSY USING ITEMS IN THE SAME ROW)								
ASSEMBLY INFO								
DART LONG LINE PART NUMBER CODE	THIMBLE ASSY PART NUMBER	DESCRIPTION	RETAINER PART NUMBER	GUSSET PART NUMBER	PURCHASE THIMBLE PART NUMBER (McMASTER CARR)	PURCHASE LIFTING RING PART NUMBER (McMASTER CARR)	DIMENSION A $\pm 0.05"$	DIMENSION B $\pm 0.13"$
DALL-#-A-A-# DALL-#-A-C-F	DALL-#-A-A-#5	THIMBLE WITH 1/2" PEAR RING	DALL-#-A-A-#6	DALL-#-#-#-#-7	(9/16") 3495T41 OR EQUIVALENT	3570T34 OR EQUIVALENT	2.00	1.10
DALL-#-B-A-# DALL-#-B-C-F	DALL-#-A-A-#5	THIMBLE WITH 1/2" PEAR RING	DALL-#-A-A-#6	DALL-#-#-#-#-7	(9/16") 3495T41 OR EQUIVALENT	3570T34 OR EQUIVALENT	2.00	1.10
DALL-#-C-A-# DALL-#-C-C-F	DALL-#-C-A-#5	THIMBLE WITH 3/4" PEAR RING	DALL-#-C-A-#6	DALL-#-#-#-#-23	(5/8") 3495T51 OR EQUIVALENT	3570T35 OR EQUIVALENT	2.60	1.20
DALL-#-D-A-# DALL-#-D-C-F	DALL-#-C-A-#5	THIMBLE WITH 3/4" PEAR RING	DALL-#-C-A-#6	DALL-#-#-#-#-23	(5/8") 3495T51 OR EQUIVALENT	3570T35 OR EQUIVALENT	2.60	1.20
DALL-#-E-A-# DALL-#-E-C-F	DALL-#-E-A-#5	THIMBLE WITH 3/4" PEAR RING	DALL-#-E-A-#6	DALL-#-#-#-#-23	(3/4") 3495T49 OR EQUIVALENT	3570T35 OR EQUIVALENT	3.00	1.30
DALL-#-F-A-# DALL-#-F-C-F	DALL-#-F-A-#5	THIMBLE WITH 3/4" PEAR RING	DALL-#-F-A-#6	DALL-#-#-#-#-23	(7/8") 3495T42 OR EQUIVALENT	3570T35 OR EQUIVALENT	3.40	1.40
DALL-#-G-A-# DALL-#-G-C-F	DALL-#-G-A-#5	THIMBLE WITH 3/4" PEAR RING	DALL-#-F-A-#6	DALL-#-#-#-#-22	(1") 3495T43 OR EQUIVALENT	3570T35 OR EQUIVALENT	3.50	1.50
DALL-#-A-B-# DALL-#-A-D-F	DALL-#-A-B-#5	THIMBLE ONLY	DALL-#-A-A-#6	DALL-#-#-#-#-7	(9/16") 3495T41 OR EQUIVALENT	N/A	2.00	1.10
DALL-#-B-B-# DALL-#-B-D-F	DALL-#-A-B-#5	THIMBLE ONLY	DALL-#-A-A-#6	DALL-#-#-#-#-7	(9/16") 3495T41 OR EQUIVALENT	N/A	2.00	1.10
DALL-#-C-B-# DALL-#-C-D-F	DALL-#-C-B-#5	THIMBLE ONLY	DALL-#-C-A-#6	DALL-#-#-#-#-23	(5/8") 3495T51 OR EQUIVALENT	N/A	2.60	1.20
DALL-#-D-B-# DALL-#-D-D-F	DALL-#-C-B-#5	THIMBLE ONLY	DALL-#-C-A-#6	DALL-#-#-#-#-23	(5/8") 3495T51 OR EQUIVALENT	N/A	2.60	1.20
DALL-#-E-B-# DALL-#-E-D-F	DALL-#-E-B-#5	THIMBLE ONLY	DALL-#-E-A-#6	DALL-#-#-#-#-23	(3/4") 3495T49 OR EQUIVALENT	N/A	3.00	1.30
DALL-#-F-B-# DALL-#-F-D-F	DALL-#-F-B-#5	THIMBLE ONLY	DALL-#-F-A-#6	DALL-#-#-#-#-23	(7/8") 3495T42 OR EQUIVALENT	N/A	3.40	1.40
DALL-#-G-B-# DALL-#-G-D-F	DALL-#-G-B-#5	THIMBLE ONLY	DALL-#-F-A-#6	DALL-#-#-#-#-22	(1") 3495T43 OR EQUIVALENT	N/A	3.50	1.50

- NOTES:
- 1) MATERIAL: N/A
 - 2) HEAT TREAT: N/A
 - 3) FINISH: N/A
 - 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
 - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 6) REMOVE ALL SHARP EDGES, BURRS, AND WELD SPATTERS
 - 7) SPREAD THE THIMBLE APART AS NECESSARY AT THE OPENING IN ORDER TO INSTALL THE LIFTING RING, BEND BACK INTO POSITION ONCE THE LIFTING RING IS INSTALLED
 - 8) TRIM/GRIND THE DALL-#-#-#-#-6 RETAINER AND THE DALL-#-#-#-#-7 OR DALL-#-#-#-#-22 OR DALL-#-#-#-#-23 GUSSET TO MATCH THIMBLE PROFILE
 - 9) IT IS ACCEPTABLE TO BEND THE THIMBLE IN / OUT TO PERMIT INSTALLATION OF THE DALL-#-#-#-#-7 OR DALL-#-#-#-#-22 OR DALL-#-#-#-#-23 GUSSET
 - 10) IT IS ACCEPTABLE TO BEND THE RETAINER IN / OUT TO PERMIT TO MATCH THIMBLE PROFILE





**TABLE 9
RETAINER**

RETAINER PART NUMBER	ϕ ID REF	ϕ OD REF	LENGTH $\pm 0.05"$	(OPTIONAL) PURCHASE RAW MATERIAL (MCMASTER CARR REF)
DALL-#-A-A-#-6	0.62	0.84	0.63	44635K251
DALL-#-C-A-#-6	0.82	1.05	0.63	44635K261
DALL-#-E-A-#-6	0.96	1.33	0.75	4804T151
DALL-#-F-A-#-6	1.26	1.50	1.00	89495K255

DALL-#-#-#-#-6 RETAINER

8 > 9

NOTES:

1) MATERIAL: 18-8 / 304 / 316 STAINLESS STEEL, REFER TO TABLE 9 AND NOTE 9

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = $\pm 0.1"$ / $\pm 1^\circ$

X.XX = $\pm 0.01"$ / $\pm 0.5^\circ$

X.XXX = $\pm 0.005"$ / $\pm 0.1^\circ$

X.XXXX = $\pm 0.0005"$ / $\pm 0.05^\circ$

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = $\pm 0.005"$

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) REMOVE ALL SHARP EDGES AND BURRS

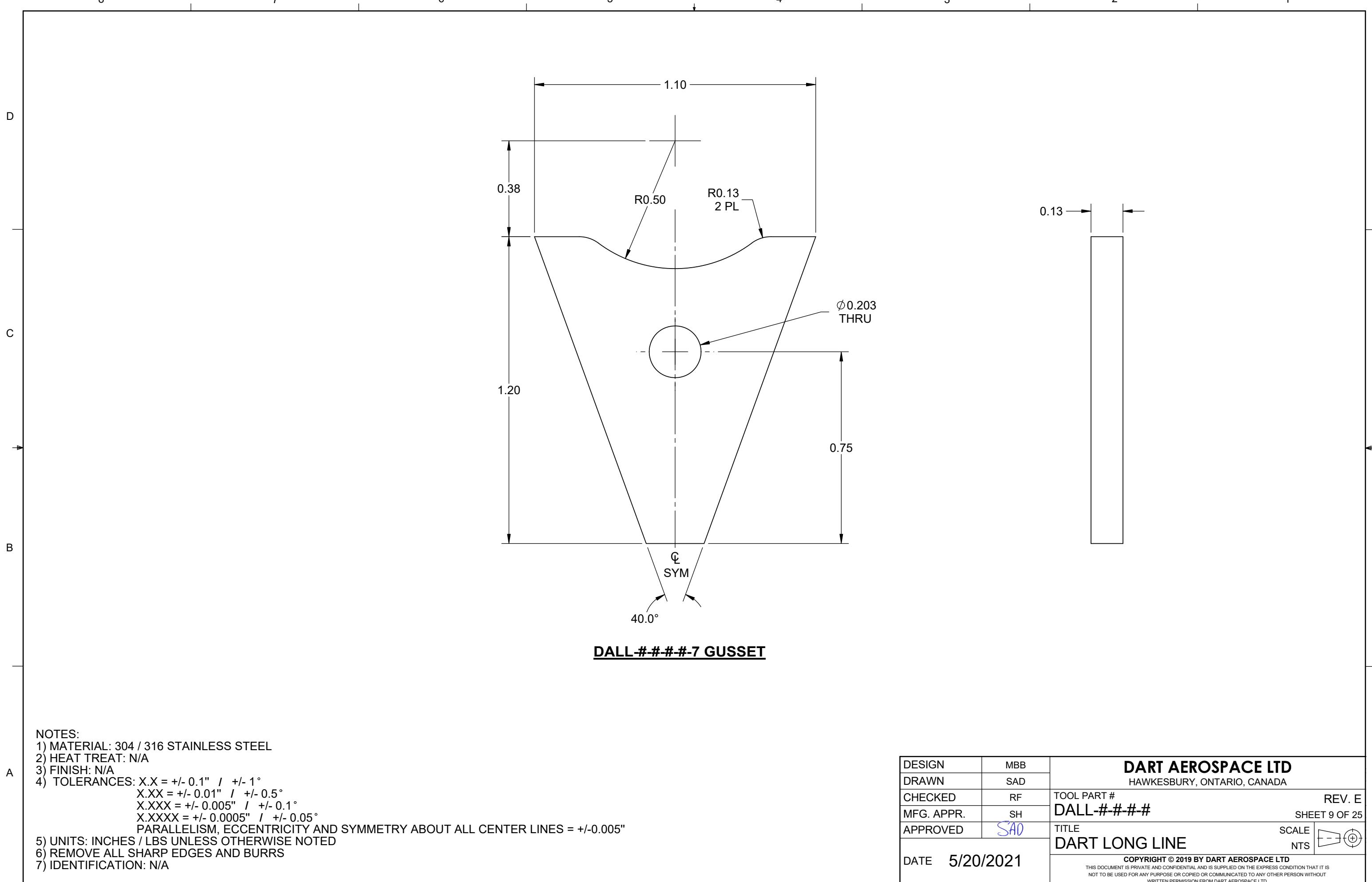
7) IDENTIFICATION: N/A

8) RETAINER IS TRIMMED TO FIT AT ASSY

9) THE RETAINER MUST BE MANUFACTURED FROM STAINLESS STEEL PIPE THAT HAS THE SAME OD AND ID AS THE THIMBLE BEING ASSEMBLED

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E DALL-#-#-#-# SHEET 8 OF 25
MFG. APPR.	SH		
APPROVED	SAD	TITLE	DART LONG LINE SCALE NTS
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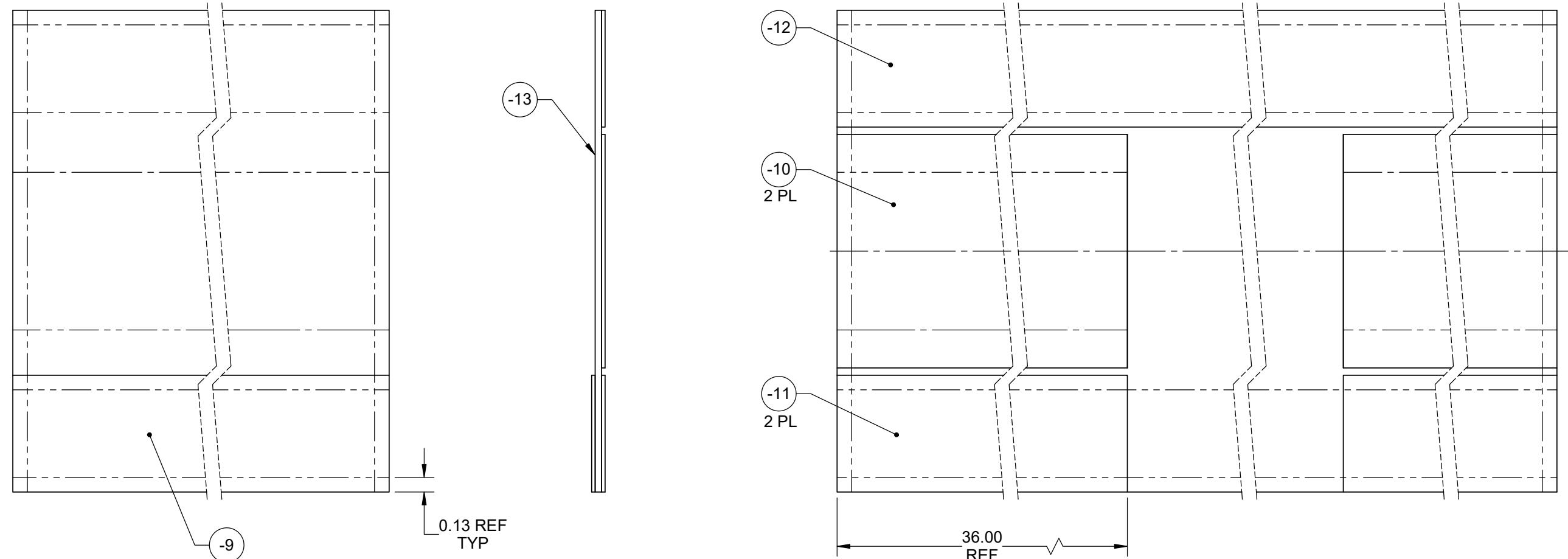


8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

ITEM #	QTY	PART #	PART TITLE
-9	1	DALL-#-#-#-9	FASTENER LOOP
-10	2	DALL-#-#-#-10	FASTENER HOOK
-11	2	DALL-#-#-#-11	FASTENER HOOK
-12	1	DALL-#-#-#-12	FASTENER HOOK
-13	1	DALL-#-#-#-13	ORANGE JACKET

D



DALL-#-#-#-8 ORANGE JACKET ASSY

8 → 9 → 10

NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
- 5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED
- 6) IDENTIFICATION: N/A
- 7) SEW ITEMS TOGETHER AS SHOWN
- 8) STITCHING TO BE IAW ASTM D6193, TYPE 301, 6-10 STITCHES PER INCH, MINIMUM 0.5" BACKSTITCH, 0.5" SEAM ALLOWANCE, 0.5" TURNBACKS WHERE SHOWN, 0.13 ± 0.10 " FROM EDGE, ADDITIONAL ROWS OF SEWING ARE ACCEPTABLE TO ASSIST IN ASSEMBLY
- 9) PHANTOM LINES REPRESENT STITCHING
- 10) FASTNER LOOP/HOOK MUST BE ALIGNED WITH END OF ORANGE JACKET BEFORE SEWING

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	DALL-#-#-#-
MFG. APPR.	SH	REV. E	SHEET 10 OF 25
APPROVED	SAD	TITLE DART LONG LINE	
DATE 5/20/2021		SCALE NTS	
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NOTES:

1) MATERIAL: FASTENER LOOP A-A-55126, CL3, 1", BLACK

2) HEAT TREAT: N/A

3) FINISH: N/A

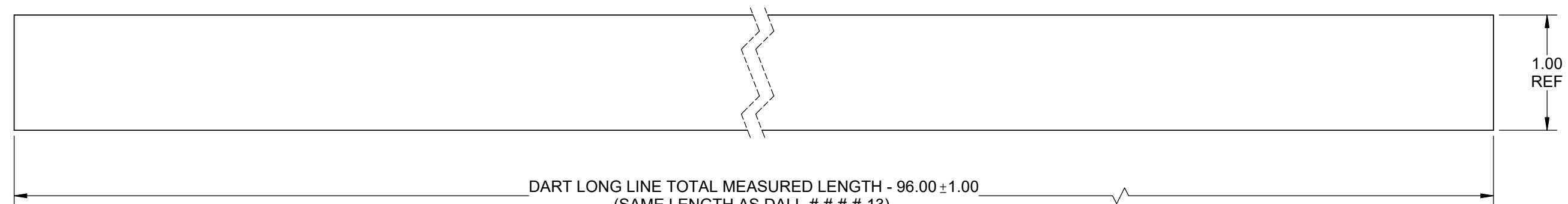
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) HEAT CUT ENDS TO PREVENT FRAYING



DALL-####-9 FASTENER LOOP

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E
MFG. APPR.	SH	DALL-#-#-#-	SHEET 11 OF 25
APPROVED	<i>SAD</i>	TITLE	SCALE
		DART LONG LINE	NTS
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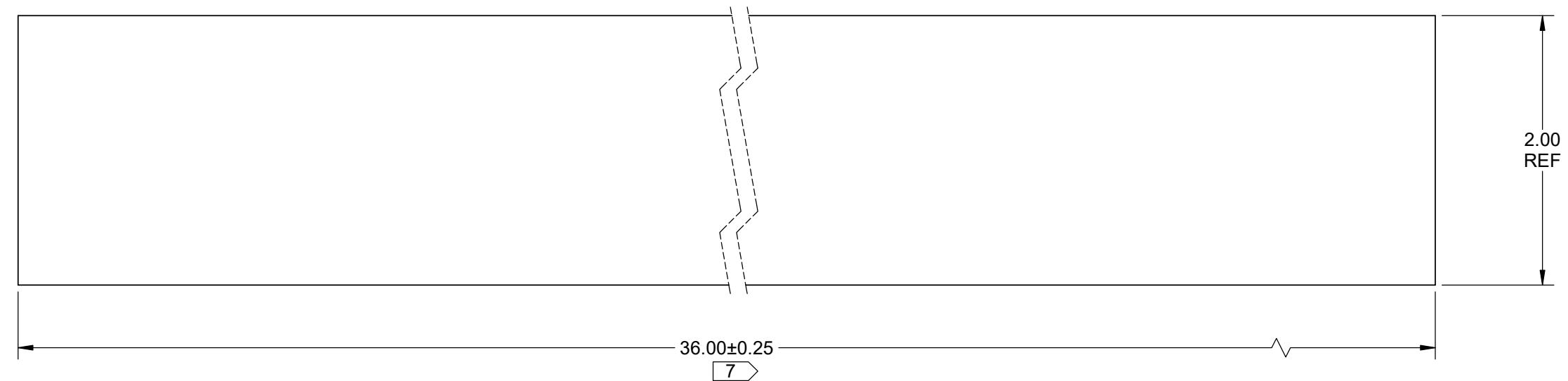
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DALL-#####-10 FASTENER HOOK

NOTES:

1) MATERIAL: FASTENER HOOK A-A-55126, TY2, CL1, 2", BLACK

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = $+\/- 0.1"$ / $+\/- 1^\circ$

X.XX = $+\/- 0.01"$ / $+\/- 0.5^\circ$

X.XXX = $+\/- 0.005"$ / $+\/- 0.1^\circ$

X.XXXX = $+\/- 0.0005"$ / $+\/- 0.05^\circ$

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = $+\/- 0.005"$

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E
MFG. APPR.	SH	DALL-#-#-#-	SHEET 12 OF 25
APPROVED	SAD	TITLE	SCALE
		DART LONG LINE	NTS
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NOTES:

1) MATERIAL: FASTENER HOOK A-A-55126, TY2, CL3, 1", BLACK

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

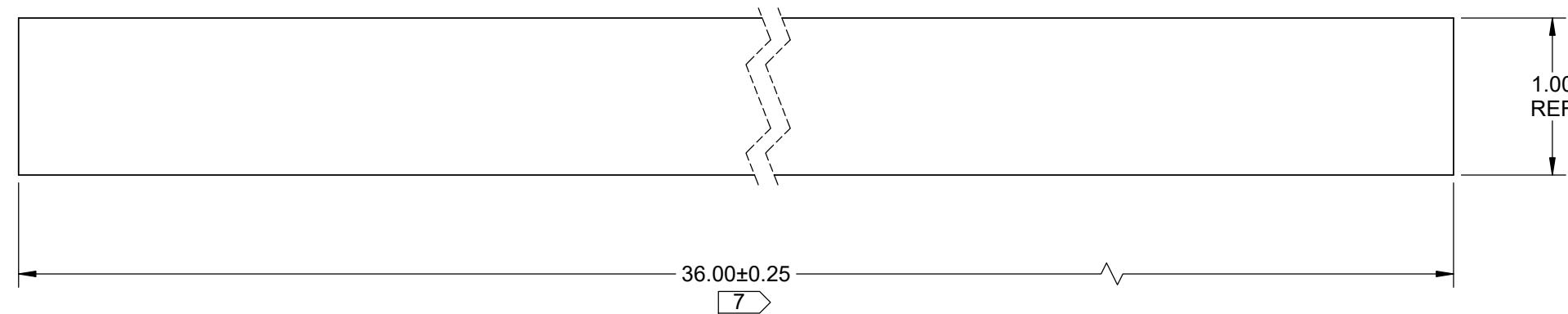
X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) HEAT CUT ENDS TO PREVENT FRAYING



DALL-#-#-#-#-11 FASTENER HOOK

DESIGN	MBB	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	REV. E	
MFG. APPR.	SH	TOOL PART # DALL-#-#-#-# SHEET 13 OF 25	
APPROVED	SAD	TITLE DART LONG LINE	
DATE 5/20/2021		SCALE NTS	(+/-)
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NOTES:

1) MATERIAL: FASTENER HOOK A-A-55126, TY2, CL3, 1", BLACK

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

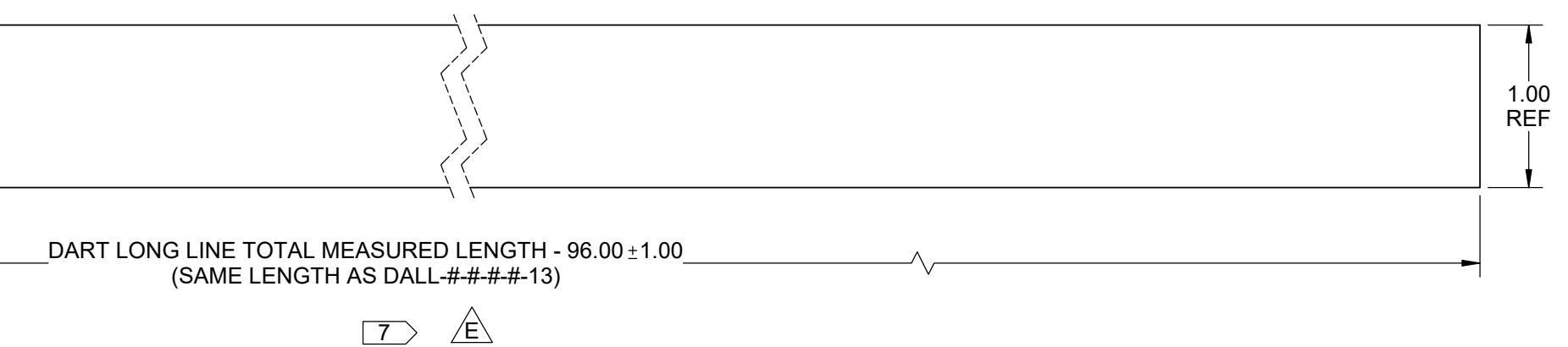
X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) HEAT CUT ENDS TO PREVENT FRAYING

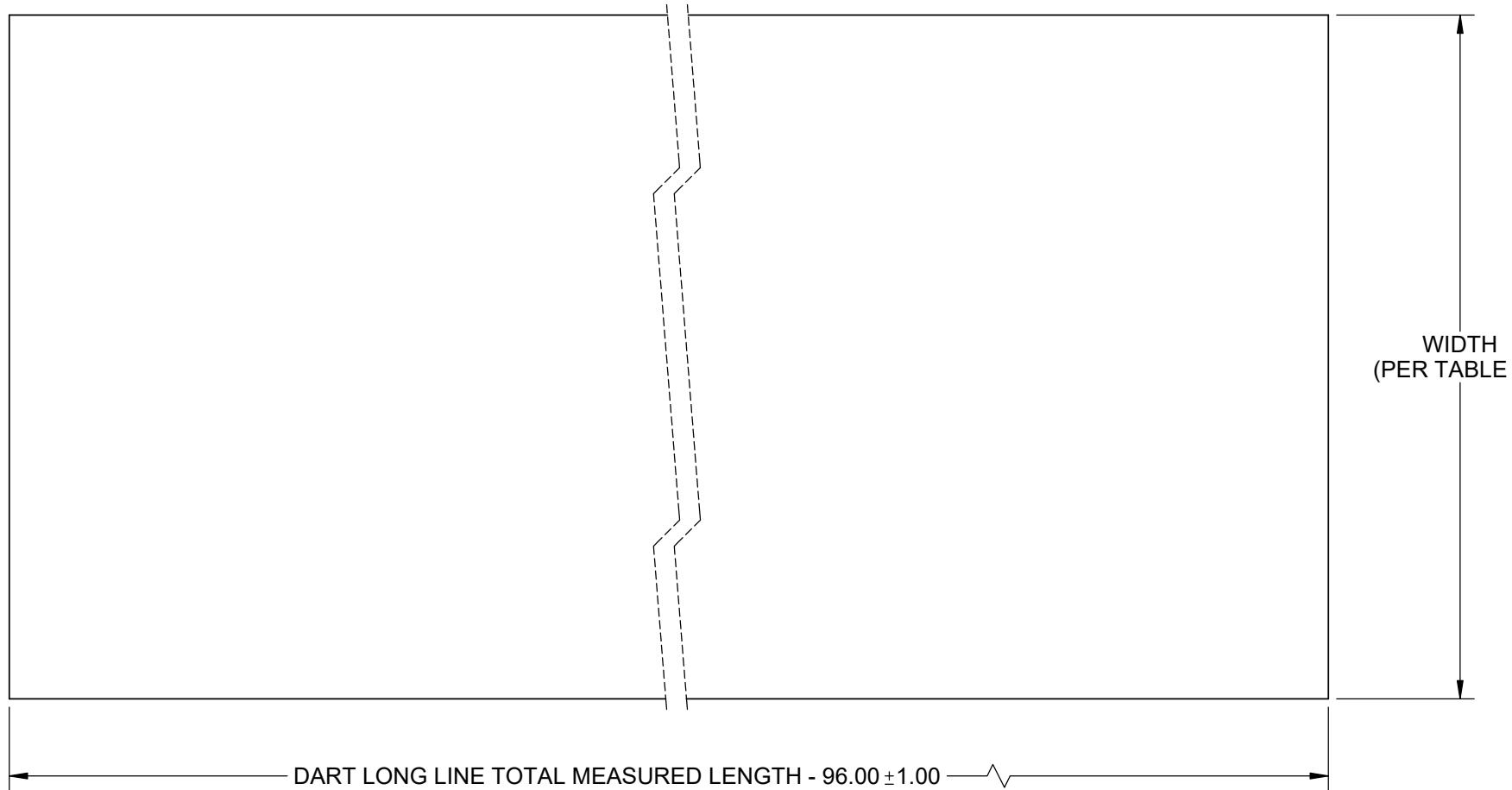


DALL-#-#-#-12 FASTENER HOOK

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E
MFG. APPR.	SH	DALL-#-#-#-	SHEET 14 OF 25
APPROVED	SAD	TITLE	SCALE
		DART LONG LINE	NTS
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**TABLE 10
ORANGE JACKET**

DART LONG LINE PART NUMBER CODE	PURCHASE MATERIAL PART NUMBER
DALL-#-A-##	P/N: 10702 P 4 1/8" SUPPLIER: MURDOCK WEBBING CO. INC COLOR: ORANGE DESCRIPTION: 4.13" WIDE SINGLE-WALLED TUBULAR WEB POLYESTER
DALL-#-B-##	
DALL-#-C-##	
DALL-#-D-##	
DALL-#-E-##	P/N: 10702 P 5 1/8" SUPPLIER: MURDOCK WEBBING CO. INC COLOR: ORANGE DESCRIPTION: 5.13" WIDE SINGLE-WALLED TUBULAR WEB POLYESTER
DALL-#-F-##	
DALL-#-G-##	
DALL-##-C-F	
DALL-##-D-F	NO ORANGE JACKET REQUIRED

DALL-##-##-13 ORANGE JACKET



NOTES:
1) MATERIAL: REFER TO TABLE 10
2) HEAT TREAT: N/A
3) FINISH: N/A

4) TOLERANCES: X.X = $+- 0.1"$ / $+- 1^\circ$
X.XX = $+- 0.01"$ / $+- 0.5^\circ$
X.XXX = $+- 0.005"$ / $+- 0.1^\circ$
X.XXXX = $+- 0.0005"$ / $+- 0.05^\circ$

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = $+-0.005"$

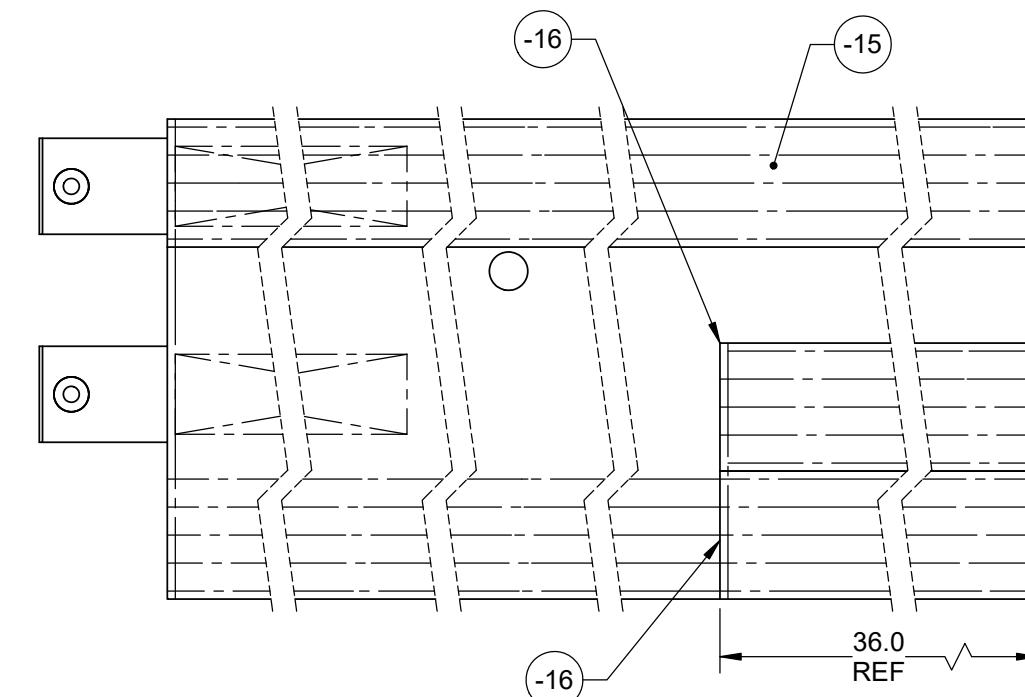
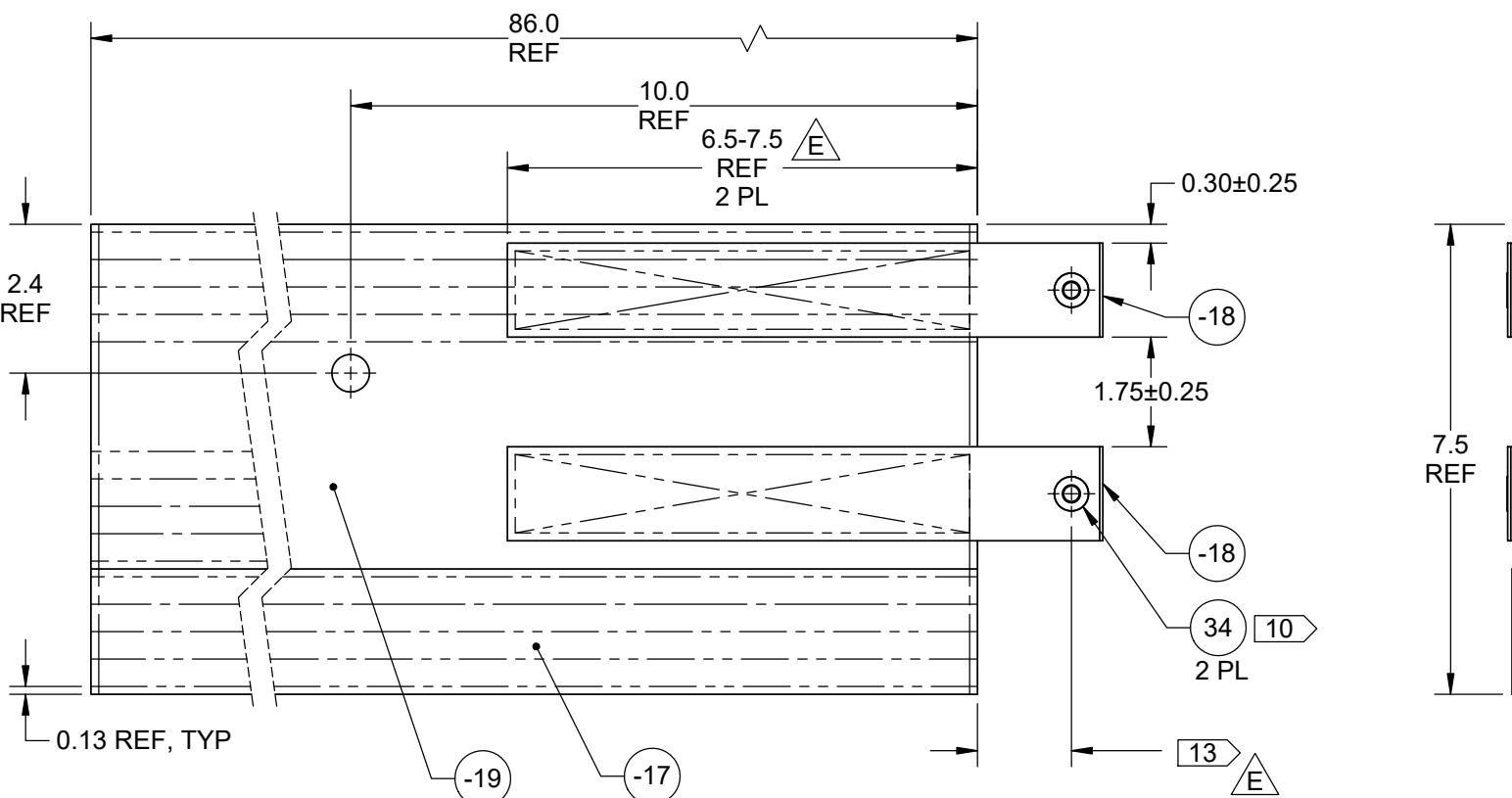
5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	SAD	
CHECKED	RF	TOOL PART #
MFG. APPR.	SH	DALL-##-##-#
APPROVED	SAD	REV. E SHEET 15 OF 25
		TITLE DART LONG LINE SCALE NTS
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ITEM #	QTY	PART #	PART TITLE
-15	1	DALL-#-#-#-15	FASTENER LOOP
-16	2	DALL-#-#-#-16	FASTENER LOOP
-17	1	DALL-#-#-#-17	FASTENER HOOK
-18	2	DALL-#-#-#-18	WEBBING
-19	1	DALL-#-#-#-19	BLUE JACKET
34	2	MS20230B10 OR EQUIV.	GROMMET AND WASHER



DALL-#-#-#-14 BLUE JACKET ASSY

7 8 9 11 12

NOTES:

1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) SEW ITEMS TOGETHER AS SHOWN

8) STITCHING TO BE IAW ASTM D6193, TYPE 301, 6-10 STITCHES PER INCH, MINIMUM 0.5" BACKSTITCH, 0.5" SEAM ALLOWANCE, 0.5" TURNBACKS WHERE SHOWN, 0.13" ± 0.10" FROM EDGE, ADDITIONAL ROWS OF SEWING ARE ACCEPTABLE TO ASSIST IN ASSEMBLY

9) PHANTOM LINES REPRESENT STITCHING

10) FORM ITEM 34 IN POSITION

11) FASTENER LOOP/HOOK MUST BE ALIGNED WITH END OF ORANGE JACKET BEFORE SEWING

12) ITEMS -15/-16/-17 MUST HAVE 3 ADDITIONAL EQUALLY SPACED ROWS OF STITCHING AS SHOWN

13) LENGTH OF 1.50 +/- 0.10 2PL FOR DALL-#-A/B/C/D/E/F-# AND 2.50 +/- 0.10 2PL FOR DALL-G-#



DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	REV. E	
MFG. APPR.	SH	TOOL PART # DALL-#-#-#- SHEET 16 OF 25	
APPROVED	SAD	TITLE DART LONG LINE	
DATE 5/20/2021		SCALE NTS	
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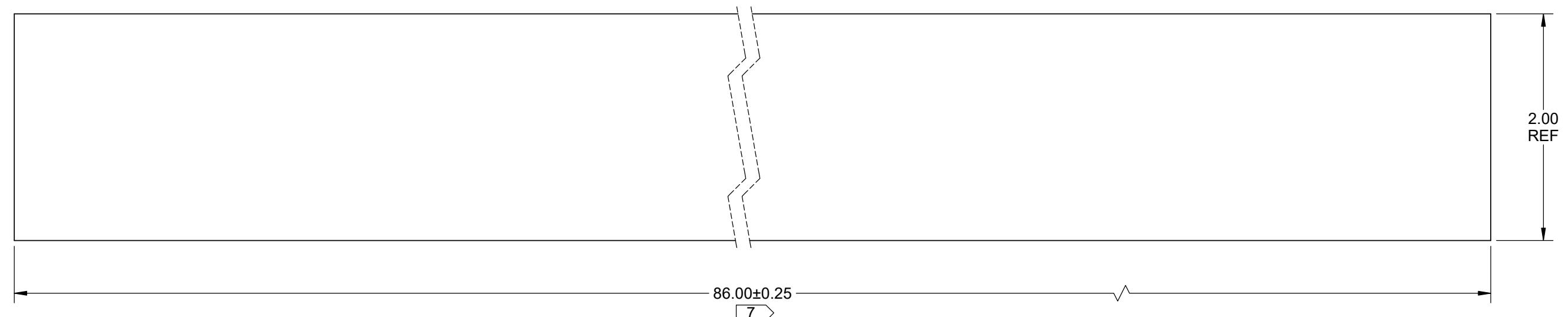
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DALL-#-#-#-15 FASTENER HOOK

NOTES:

- 1) MATERIAL: FASTENER HOOK A-A-55126, TY2, CL1, 2", BLACK
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
- 5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED
- 6) IDENTIFICATION: N/A
- 7) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E
MFG. APPR.	SH	DALL-#-#-#-	SHEET 17 OF 25
APPROVED	SAD	TITLE	SCALE
		DART LONG LINE	NTS
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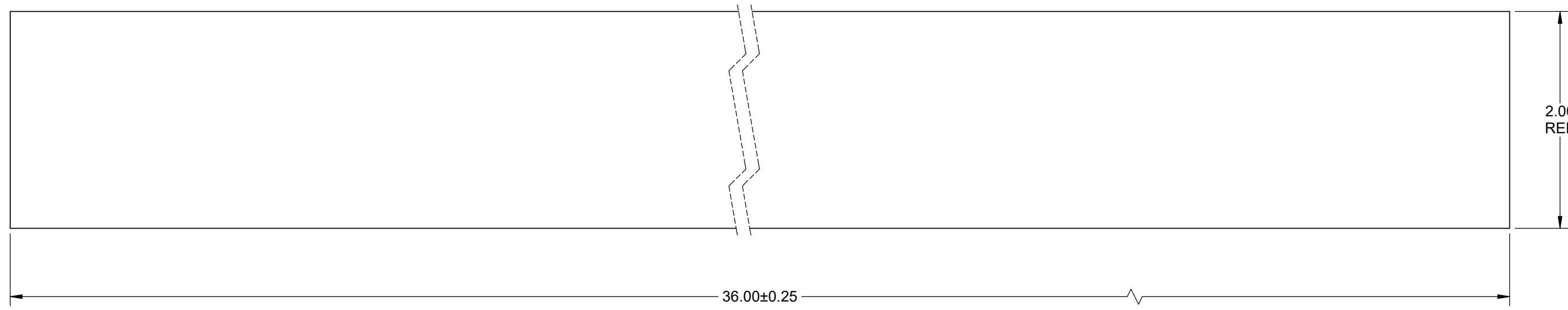
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DALL-####-16 FASTENER LOOP

NOTES:

1) MATERIAL: FASTENER LOOP A-A-55126, CL1, 2", BLACK

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	MBB	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	TOOL PART #	
MFG. APPR.	SH	REV. E	
APPROVED	SAD	DALL-#-#-#-	
TITLE		SHEET 18 OF 25	
DART LONG LINE		SCALE	
NTS			
DATE 5/20/2021		COPYRIGHT © 2019 BY DART AEROSPACE LTD	
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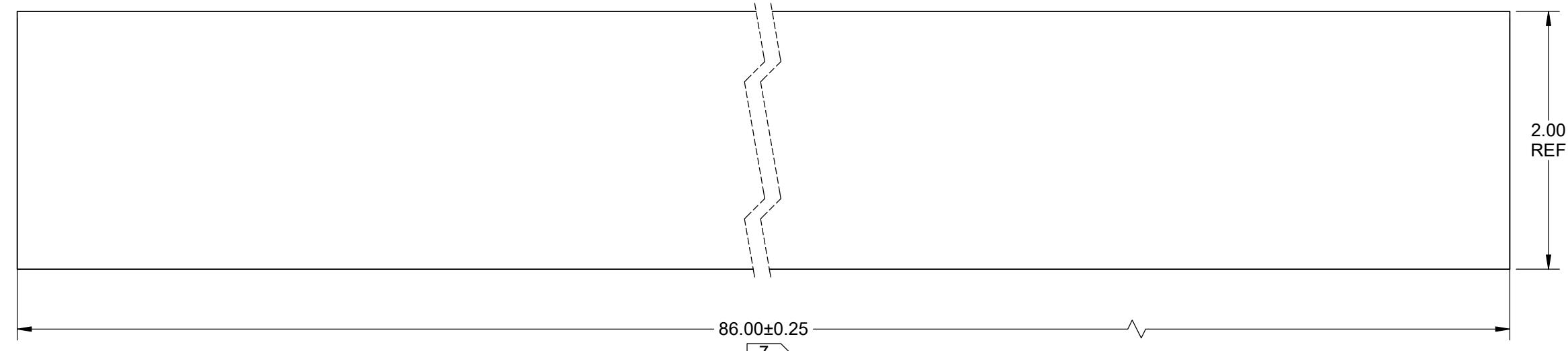
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DALL-#-#-#-#-17 FASTENER LOOP

NOTES:

1) MATERIAL: FASTENER LOOP A-A-55126, CL1, 2", BLACK

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

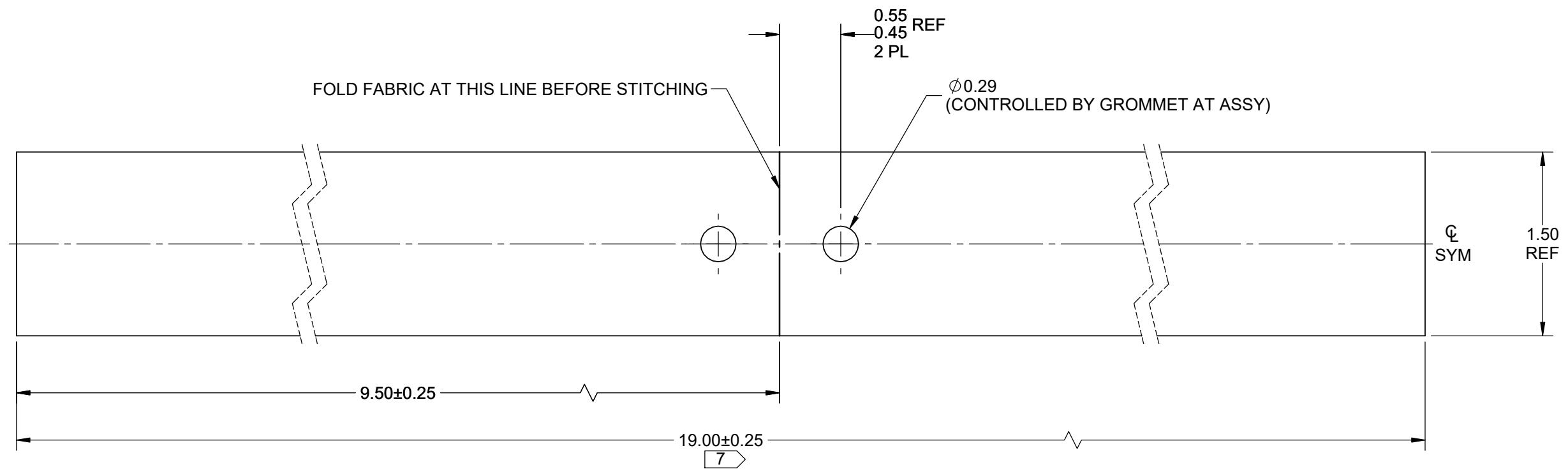
7) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	MBB	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	REV. E	
MFG. APPR.	SH	TOOL PART # DALL-#-#-#-# SHEET 19 OF 25	
APPROVED	SAD	TITLE DART LONG LINE	
DATE 5/20/2021		SCALE NTS	
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DALL-#-#-#-18 WEBBING

NOTES:

- 1) MATERIAL: WEBBING NYLON BLACK, MIL-W-17337F, CL1, 1-1/2"
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
- 5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED
- 6) IDENTIFICATION: N/A
- 7) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	MBB	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	REV. E	
MFG. APPR.	SH	TOOL PART # DALL-#-#-# SHEET 20 OF 25	
APPROVED	SAD	TITLE DART LONG LINE	
DATE	5/20/2021	SCALE	NTS
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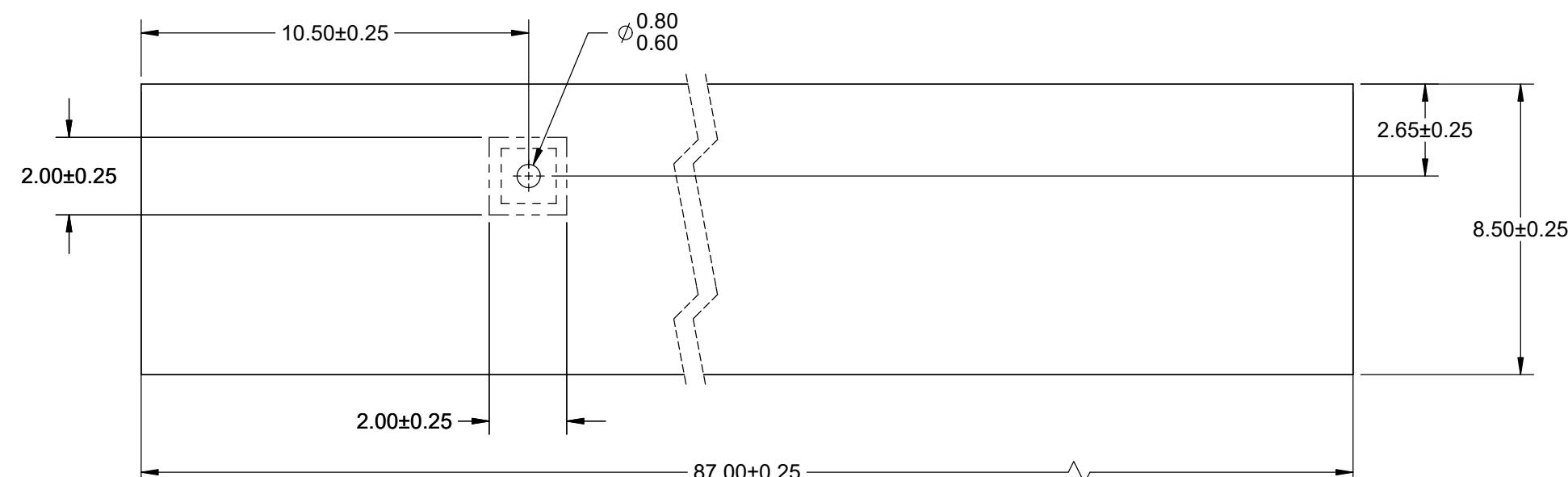
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DALL-####-19 BLUE JACKET

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NOTES:

1) MATERIAL: VOLANT PLUS FR-14 (BLUE # 75) (TULMAR P/N 1532B)

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) IDENTIFICATION: N/A

7) STITCHING TO BE IAW ASTM D6193, TYPE 301, 6-10 STITCHES PER INCH, MINIMUM 0.5" BACKSTITCH, 0.5" SEAM ALLOWANCE, 0.5" TURNBACKS WHERE SHOWN, 0.13" ±0.10" FROM EDGE, ADDITIONAL ROWS OF SEWING ARE ACCEPTABLE TO ASSIST IN ASSEMBLY

8) PHANTOM LINES REPRESENT STITCHING, APPLY REINFORCEMENT STITCHING AROUND HOLE APPROXIMATELY AS SHOWN

DESIGN	MBB	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	REV. E	
MFG. APPR.	SH	TOOL PART # DALL-#-#-#	
APPROVED	SAD	SHEET 21 OF 25	
TITLE DART LONG LINE		SCALE	NTS
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**TABLE 11
ELECTRICAL WIRE**

DART LONG LINE PART NUMBER CODE	PURCHASE WIRE PART NUMBER (MCMASTER CARR REF)	ELECTRICAL WIRE DESCRIPTION
DALL-# #-A	7422K24	3 CONDUCTOR 14 GA
DALL-# #-B	7422K26	3 CONDUCTOR 12 GA
DALL-# #-C	7422K25	4 CONDUCTOR 14 GA
DALL-# #-D	7081K37	6 CONDUCTOR 16 GA
DALL-# #-E	7081K38	8 CONDUCTOR 16 GA
DALL-# #-F	N/A	NO ELECTRICAL
DALL-# #-G	7422K62	2 CONDUCTOR 14 GA
DALL-# #-H	7081K16	2 CONDUCTOR 12 GA

DALL-# #-#-20 ELECTRICAL WIRE

7

NOTES:

1) MATERIAL: ELECTRICAL CABLE MUST BE ONE OF THE FOLLOWING TYPES: SOOW / SJOOW / SJTOW WIRE, REFER TO TABLE 11

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

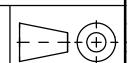
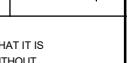
X.XXXX = +/- 0.0005" / +/- 0.05°

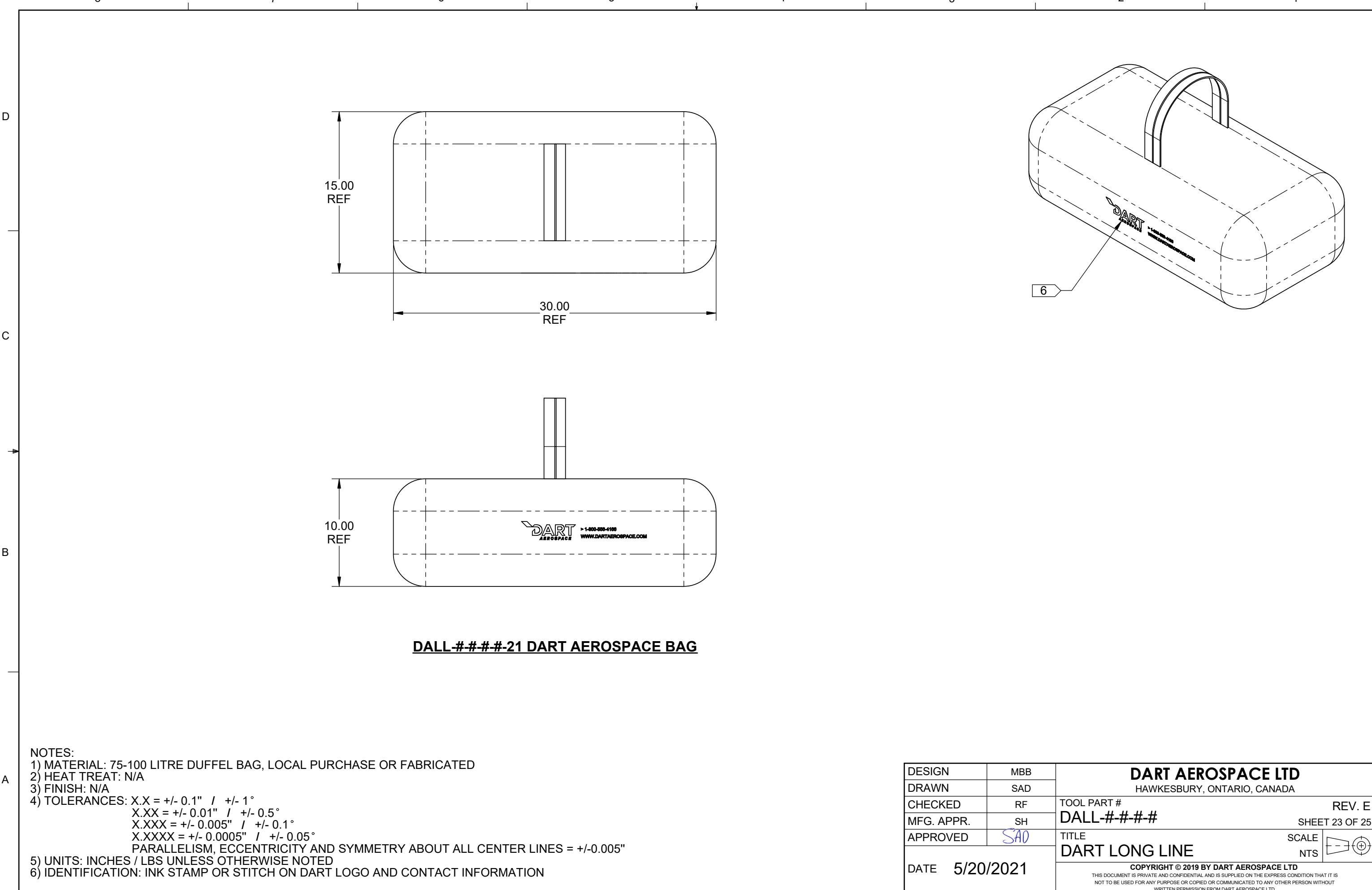
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

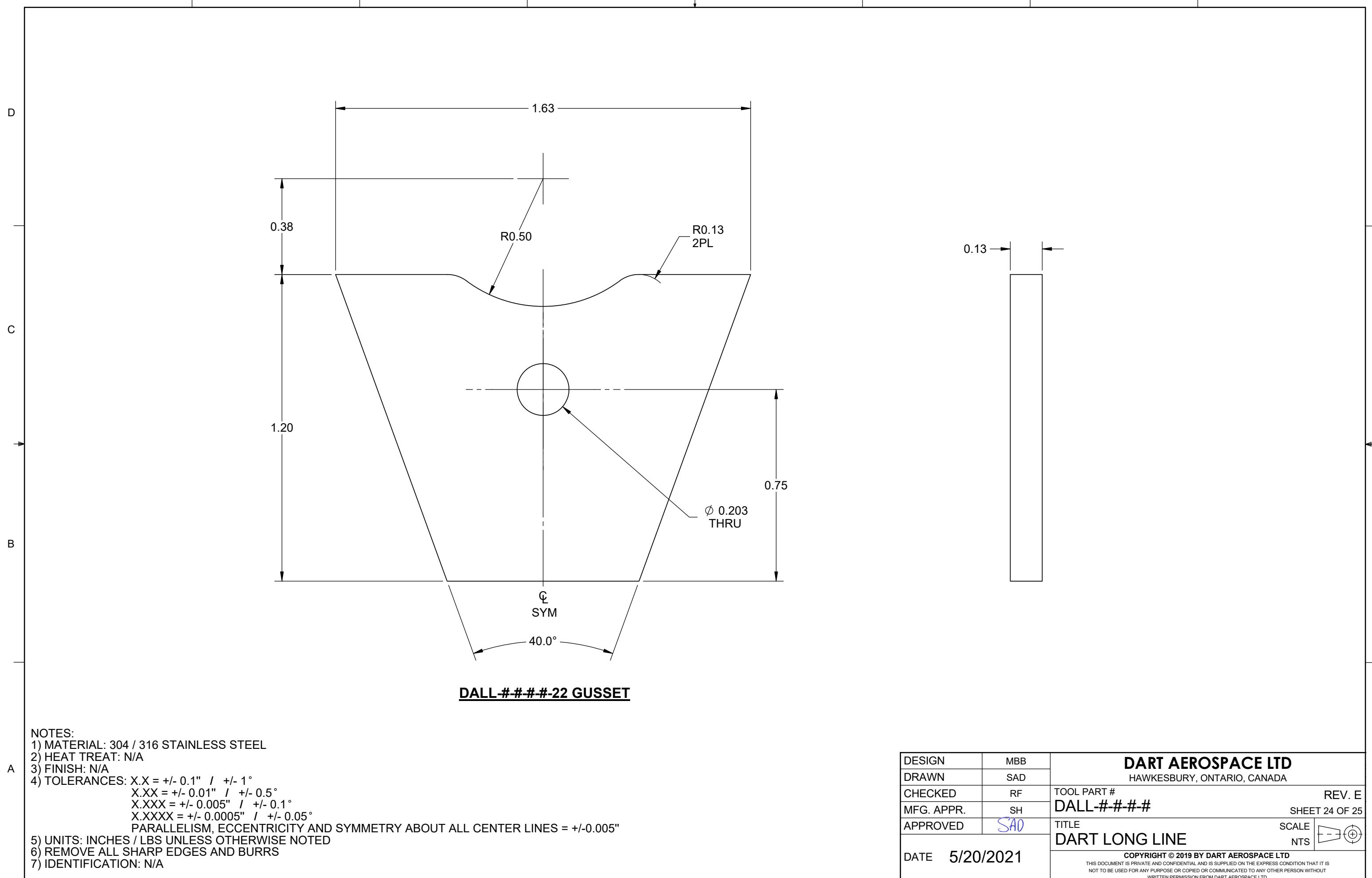
6) IDENTIFICATION: N/A

7) REFER TO DALL-# #-#-1 FOR ELECTRICAL WIRE LENGTH REQUIRED

DESIGN	MBB	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	REV. E	
MFG. APPR.	SH	TOOL PART # DALL-# #-#-#	
APPROVED	SAD	SHEET 22 OF 25	
TITLE DART LONG LINE		SCALE	NTS
DATE 5/20/2021			
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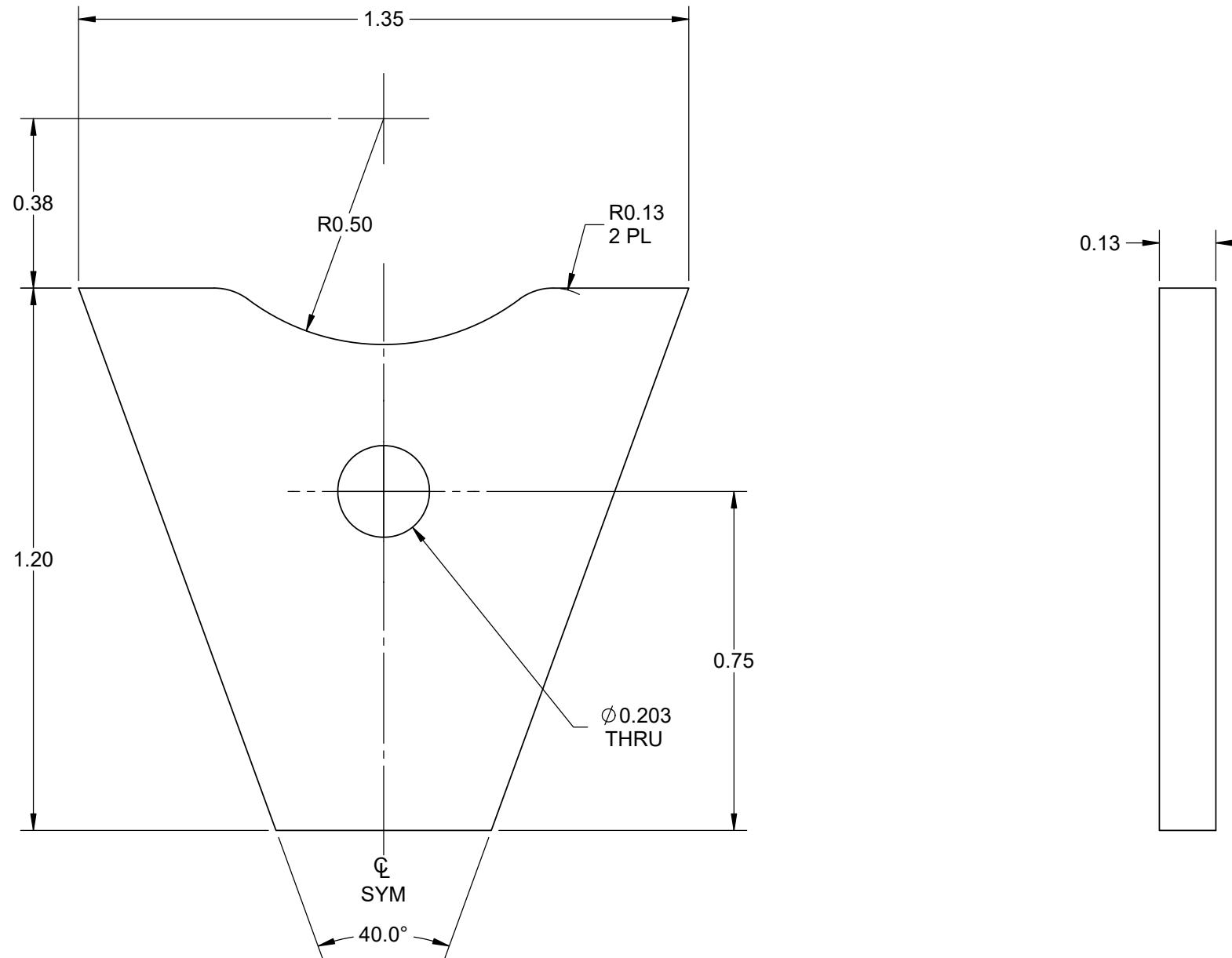
C

B

B

A

A



DALL-#-##-#-23 GUSSET

NOTES:

1) MATERIAL: 304 / 316 STAINLESS STEEL

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X = +/- 0.1" / +/- 1°

X.XX = +/- 0.01" / +/- 0.5°

X.XXX = +/- 0.005" / +/- 0.1°

X.XXXX = +/- 0.0005" / +/- 0.05°

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

5) UNITS: INCHES / LBS UNLESS OTHERWISE NOTED

6) REMOVE ALL SHARP EDGES AND BURRS

7) IDENTIFICATION: N/A

DESIGN	MBB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	TOOL PART #	REV. E
MFG. APPR.	SH	DALL-#-#-#-	SHEET 25 OF 25
APPROVED	SAD	TITLE	SCALE
		DART LONG LINE	NTS
DATE	5/20/2021	COPYRIGHT © 2019 BY DART AEROSPACE LTD	
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